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P7P55D Deluxe

Xtreme Design - Hybrid Series, Designed to Perform

- Intel LGA1156 Platform / Intel® P55 Express Chipset
- TurboV EVO / TurboV Remote
- ASUS 24 Hybrid Phase Design
- Quad-GPU SLI & Quad-GPU CrossFireX Support!
- ASUS Drive Xpert
- MemOK!

CPU	Intel® Socket 1156 Core™ i7 Processor/Core™ i5 Processor/ Supports Intel® Turbo Boost Technology
Chipset	Intel® P55 Express Chipset
Memory	4 x DIMM, Max. 16 GB, DDR3 2200(O.C.)*/1600/1333 Memory Dual Channel memory architecture Supports Intel® Extreme Memory Profile (XMP) *Hyper DIMM support is subject to the physical characteristics of individual CPUs. Some hyper DIMMs only support one DIMM per channel. Please refer to Memory QVL for details. **Refer to www.asus.com or this user manual for the Memory QVL(Qualified Vendors Lists).
Expansion Slots	2 x PCIe 2.0 x16 (single at x16 or dual at x8/x8 mode) 1 x PCI Express 2.0 x16 slots (at x4 mode, 2.5GT/s) 2 x PCI Express 2.0 x1 (2.5GT/s) 2 x PCI
Multi-GPU Support	Supports NVIDIA® Quad-GPU SLI™ Technology Supports ATI® Quad-GPU CrossFireX™ Technology
Storage	**Intel® P55 Express Chipset built-in** 6 xSATA 3.0 Gb/s ports Intel Matrix Storage Technology Support RAID 0,1,5,10 **JMicron® JMB363 PATA and SATA controller** 1 xUltraDMA 133/100/66 for up to 2 PATA devices 1 xSATA 3Gb/s port (black) **JMicron® JMB322 (Drive Xpert Technology) :** - 2 x SATA 3.0 Gb/s ports (navy blue and gray) - Supports EZ Backup and SuperSpeed functions *Drive Xpert function is available only when the hard disk drives are set as data drives.
LAN	Dual Gigabit LAN controllers Realtek® 8112L / 8110SC Gigabit LAN controller featuring AI NET2 and Teaming
Audio	VIA® VT2020 10-Channel High Definition Audio CODEC - Absolute Pitch BD192/24 featuring ENVY HD - DTS Surround Sensation UltraPC - BD audio layer Content Protection - Supports Jack-Detection, Multi-streaming, Front Panel Jack-Retasking - Coaxial / Optical S/PDIF out ports at back I/O
IEEE 1394	VIA® 6308P controller supports 2 x 1394a ports (one at mid-board; one at back panel)
USB	14 USB 2.0/1.1 ports (6 ports at mid-board, 8 ports at back panel)
ASUS Unique Features	**ASUS Hybrid Processor - TurboV EVO** - Auto Tuning, TurboV and Turbo Key - TurboV Remote

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Overclocking Features	**ASUS 24 Hybrid Phase Design*** - T.Probe Technology for Active Cooling - 16+3 Phase Power Design *24 Hybrid Phase = 16+3 Phase x T.Probe **ASUS Hybrid OS - Express Gate** **ASUS Xtreme Design** **ASUS Exclusive Features** - ASUS Drive Xpert - MemOK! - ASUS EPU **ASUS Quiet Thermal Solution** - ASUS Fanless Design: Heat-pipe solution - ASUS Fanless Design: Stack Cool 3+ - ASUS Fan Xpert **ASUS Crystal Sound** - ASUS Noise Filter **ASUS EZ DIY** - ASUS Q-Shield - ASUS Q-Connector - ASUS O.C. Profile - ASUS CrashFree BIOS 3 - ASUS EZ Flash 2 - ASUS MyLogo 2 - Multi-language BIOS **ASUS Q-Design** - ASUS Q-LED (CPU, DRAM, VGA, Boot Device LED) - ASUS Q-Slot - ASUS Q-DIMM **Precision Tweaker 2** - vCore: Adjustable CPU voltage at 0.00625V increment - vIMC: Adjustable IMC voltage at 0.00625V increment - vDRAM Bus: 81-step DRAM voltage control - vPCH: 2-step chipset voltage control - vCPU_PLL: 4-step reference voltage control **SFS (Stepless Frequency Selection)** - PCI Express frequency tuning from 100MHz up to 200MHz at 1MHz increment - Internal Base Clock tuning from 80MHz up to 500MHz at 1MHz increment **Overclocking Protection** - ASUS C.P.R.(CPU Parameter Recall)
Back Panel I/O Ports	1 x IEEE 1394a 2 x LAN(RJ45) port 8 x USB 2.0/1.1 10 -Channel Audio I/O 1 x Clr CMOS switch 1 x PS/2 Keyboard (Purple) 1 x PS/2 mouse port (Green) 1 x Coaxial S/PDIF Output 1 x Optical S/PDIF Output
Internal I/O Connectors	3 x USB connectors support additional 6 USB ports 1 x IDE connector 7 x SATA connectors 1 x IEEE 1394a connector 1 x CPU Fan connector 1 x Power Fan connector 2 x Drive Xpert SATA connectors (navy blue and gray)

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	2 x Chassis Fan connector (1x4-pin, 1x3-pin) Front panel audio connector 1 x S/PDIF Out Header 1 x CD audio in 1 x 24-pin ATX Power connector 1 x 8-pin ATX 12V Power connector System Panel(Q-Connector) 1 x TURBO_CON header (for TurboV Remote) 1 x MemOK! button 1 x Power on switch 1 x Reset switch
BIOS	16 Mb Flash ROM , AMI BIOS, PnP, DMI2.0, WfM2.0, SM BIOS 2.5, ACPI 2.0a, Multi-language BIOS, ASUS EZ Flash 2, ASUS CrashFree BIOS 3
Manageability	WfM 2.0,DMI 2.0,WOL by PME,WOR by PME,PXE
Accessories	1 x TurboV Remote 1 x 2-port USB and eSATA module ASUS Q-Shield 1 x ASUS SLI bridge connector User's manual 1 x UltraDMA 133/100/66 cable 6 x SATA cable(s) 2 in 1 Q-connector
Support Disc	Drivers Anti-virus software (OEM version) ASUS Update ASUS Utilities
Form Factor	ATX Form Factor 12 inch x 9.6 inch (30.5 cm x 24.4 cm)

CPU, Chipset and Graphics features

LGA1156 Intel® Lynnfield Processor Ready

This motherboard supports the latest Intel® Lynnfield processors in LGA1156 package which has memory and PCI Express controller integrated to support 2-channel (4 DIMMs) DDR3 memory and 16 PCI Express 2.0 lanes providing great graphics performance. Intel® Lynnfield processor is one of the most powerful and energy efficient CPU in the world.

Quad-GPU SLI and Quad-GPU CrossFireX Support!

Flexible Multi-GPU solutions, Your Weapon of Choice!
P7P55D Deluxe brings you the multi-GPU choice of either SLI™ or CrossFireX. The motherboard features the most powerful Intel P55 platform to optimize PCIe allocation in multiple GPU configurations. Expect a brand-new gaming style you've never experienced before!

Intel P55

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The Intel® P55 Express Chipset is the latest one-chipset design to support latest 1156 socket Intel® Core™ i7/Core™ i5 Processors. Intel® P55 providing improved performance by utilizing serial point-to-point links, allowing increased bandwidth and stability.

PCIe 2.0

Double Speed; Double Bandwidth
This motherboard supports the latest PCIe 2.0 devices for double speed and bandwidth which enhances system performance.

Memory Features

Dual-Channel DDR3 2133(O.C.) / 1600 / 1333 / 1066 support

The motherboard supports DDR3 memory that features data transfer rates of 2133(O.C.) / 1600 /1333 / 1066 MHz to meet the higher bandwidth requirements of the latest 3D graphics, multimedia, and Internet applications. The dual-channel DDR3 architecture enlarges the bandwidth of your system memory to boost system performance.

ASUS Xtreme Design - Hybrid Processor

ASUS TurboV EVO

Ultimate O.C. Processor
Whether novice or enthusiast, TurboV Evo satisfies overclockers of any level. Intelligently push systems to the fastest, stable clock speeds with Auto-Tuning. Turbo Key boosts performance with a simple touch, while TurboV offers additional advanced options for breaking those records!

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Auto Tuning

Auto System Level Up

Achieve extreme yet stable overclocking results automatically with Auto Tuning! With built-in stability testing, Auto Tuning lets even beginners improve performance with no additional cost.

ASUS TurboV Remote

Versatile, Real-time O.C. Hardware Controller

Tweak your settings real-time without interrupting ongoing work or games. With ASUS TurboV remote, you can overclock, activate Turbo Key and adjust EPU settings directly form a convenient side controller.

ASUS Xtreme Design - 24 Hybrid Phase Design*

ASUS True 16+3 Phase Power Design

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Unprecedented Innovation with the Best Quality Component for Best Performance
The groundbreaking 16+3 phase VRM design is brrought to the ASUS motherboards. 16+3 phase power design, 16-phase for vCore and extra 3-phase for Memory controller inside CPU, can provide the highest power efficiency, and hence generates less heat to effectively enhance the overclocking capability. With the high quality power components such as low RDS (on) MOSFETs, Ferrite core chokes with lower hysteresis loss and 100% Japan-made high quality conductive polymer capacitors, ASUS 16+3 phase VRM design also ensure longer component life and minimum power loss.

*24 Hybrid Phase = 16+3 Phase x T.Probe

T.Probe

Leading Active Cooling Technology
The T.Probe microchip detects and balances power phase loads and temperatures real-time. With optimal power phase functions, components run cooler and extend system lifespan.

ASUS Xtreme Design - Hybrid OS

ASUS Express Gate

Instant Online! Instant Fun!
Express Gate is an ASUS exclusive OS that provides you with quick access to the Internet and key applications before entering the Windows® OS.

ASUS Exclusive Features

MemOK!

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Any Memory is A-OK!

MemOK! quickly ensures memory boot compatibility. This remarkable memory rescue tool requires a mere push of a button to patch memory issues. MemOK! determines failsafe settings and dramatically improves your system boot success. Get your system up and running in no time!

ASUS EPU

System Level Energy Saving

The new ASUS EPU - the world´s first power saving engine, has been upgraded to a new six engine version, which provides total system power savings by detecting current PC loadings and intelligently moderating power in real-time. With auto phase switching for components (which includes the CPU, VGA card, memory, chipset, drives and system fan), the EPU automatically provides the most appropriate power usage via intelligent acceleration and overclocking - helping save power and money.

ASUS Quiet Thermal Solution

ASUS Fanless Design - Heat-pipe solution

The Heat Pipe design effectively directs the heat generated by the chipsets to the heatsink near the back IO ports, where it can be carried away by existing airflow from CPU fan or bundled optional fan. The purpose of the innovative heat pipe design on this motherboard is that the groundbreaking fanless design does not have lifetime problems as a chipset fan does. Furthermore, it provides options for users to install side-flow fan or passive cooler. The Heat Pipe design is the most reliable fanless thermal solution to date.

Fan Xpert

Active Quiet & Cool

ASUS Fan Xpert intelligently allows users to adjust both the CPU and chassis fan speed according to different ambient temperature , which is caused by different climate conditions in different geographic regions and system loading.Built-in variety of useful profiles offer flexible controls of fan speed to achieve a quiet and cool environment.

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Up to 20°C(36°F) Cooler - Stack Cool 3+

Effective Fanless Heat Dissipation at 0dB

Stack Cool 3+ is a fanless cooling solution offered exclusively by ASUS. It effectively and noiselessly transfers heat generated by the critical components to the other side of the specially designed PCB (printed circuit board) for effective heat dissipation - making temperatures cooler by up to 20°C.

ASUS Crystal SoundSound

**Absolute Pitch BD 192/24 featuring ENVY HD -
10-channel Audio**

Feel the Prodigious Multi-channel BD Sensation

ENVY HD featuring prodigious 10 high definition audio, fine-textured graphic user interface simply brings the professional surround acoustic level to the PC sound industry. Also, Absolute Pitch BD192/24 delivers 192khz/24bit Hi-Fi BD lossless, extreme fidelity sound to bring true BD audio technology to the home theater PC.

Noise Filtering

Eliminate background noise while recording

This feature detects repetitive and stationary noises like computer fans, air conditioners, and other background noises then eliminates it in the incoming audio stream while recording.

DTS Surround Sensation UltraPC

Real Home Theater Enjoyment

DTS Surround Sensation UltraPC delivers exceptional surround experience through the most common PC audio setups - your existing stereo speakers or headphones. In addition to virtual surround, “Bass Enhancement” provides stronger low frequency bass sound, and “Voice Clarification” provides clear dialogue even with loud background sound. With these technologies, you may experience a better home-theatre audio with ease. Simply plug in two speakers or headphones to experience high-definition surround sounds with center and rear channels just like in cinemas; wherever you are!

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ASUS EZ DIY

ASUS Onboard Switch

With an easy press during overclock, this exclusive onboard switch allows gamer to effortless fine-tune the performance without having to short the pins!

Q- Shield

Easy and Comfortable Installations
The specially designed ASUS Q-Shield does without the usual "fingers" - making it convenient and easy to install. With better electric conductivity, it ideally protects your motherboard against static electricity and shields it against Electronic Magnetic Interference (EMI).

EZ-Flash 2

Simply update BIOS from a USB flash disk before entering the OS
EZ Flash 2 is a user-friendly BIOS update utility. Simply launch this tool and update BIOS from a USB flash disk before entering the OS. You can update your BIOS only in a few clicks without preparing an additional floppy diskette or using an OS-based flash utility.

ASUS Q-Design

DIY quickly, DIY easily!
ASUS Q-Design enhances your DIY experience. All of Q-LED, Q-Slot and Q-DIMM design speed up and simplify the DIY process!

Q-Connector

Make connection quick and accurate!
The ASUS Q-Connector allows you to connect or disconnect chassis front panel cables in one easy step with one complete module. This unique adapter eliminates the trouble of plugging in one cable at a time, making connection quick and accurate.

O.C. Profile

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Conveniently store or load multiple BIOS settings

Freely share and distribute favorite overclocking settings The motherboard features the ASUS O.C. Profile that allows users to conveniently store or load multiple BIOS settings. The BIOS settings can be stored in the CMOS or a separate file, giving users freedom to share and distribute their favorite overclocking settings.

Industry Standard

IEEE 1394a interface

IEEE 1394a interface provides high speed digital interface for audio/video appliances such as digital television, digital video camcorders, storage peripherals & other PC portable devices.

S/PDIF-out on Back I/O Port

This motherboard provides convenient connectivity to external home theater audio systems via coaxial and optical S/PDIF-out (SONY-PHILIPS Digital Interface) jacks. It allows to transfer digital audio without converting to analog format and keeps the best signal quality.

RoHS

GreenASUS

The motherboard and its packaging comply with the European Union´s Restriction on the use of Hazardous Substances (RoHS). This is in line with the ASUS vision of creating environment-friendly and recyclable products and packaging to safeguard consumers´ health while minimizing the impact on the environment.

The product (electrical , electronic equipment, Mercury-containing button cell battery) should not be placed in municipal waste. Check local regulations for disposal of electronic products.

- All specifications are subject to change without notice. Please check with your supplier for exact offers. Products may not be available in all markets.
- PCB color and bundled software versions are subject to change without notice.
- Brand and product names mentioned are trademarks of their respective companies.